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(19) (CA) **CANADIAN PATENT** (12)

(54) TRANSFER DRUM FOR PRINTING MACHINES WHICH
IS ADJUSTABLE TO VARIABLE SHEET LENGTHS

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Aktiengesellschaft, Germany (Federal Republic of)

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Abstract of the Disclosure

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The specification describes a transfer drum for printing machines which is adjustable to various sheet lengths and which is provided with adjustable sheet carriers. The main drum body is provided with a device for gripping the front edge of the sheet. Also provided is a hollow body disposed as a rotatable sheet carrier unit and having a device for gripping the rear edge of the sheet.

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THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A transfer drum for a printing machine which is adjustable to accommodate sheets of various lengths and comprising a main drum body provided with sheet carriers or arms and a hollow body rotatably mounted on and partly surrounding the main drum body and provided with sheet carriers interdigitated with the arms or sheet carriers on the main drum body such that relative rotation between the said bodies serves to provide for adjustability for various sheet lengths, the main drum body being constructed in at most two parts and carrying a device for gripping one edge of a sheet, said hollow body carrying a device for gripping the opposite edge of the sheet, and forming a rotatable sheet carrier unit.
2. A transfer drum according to Claim 1, characterised in that the main drum body is made in two parts as a cylinder having a separate axle and the hollow body is made in one piece.
3. A transfer drum according to Claim 1, characterised in that the main drum body is made in one piece and the hollow body is composed of a plurality of parts.
4. A transfer drum according to Claims 1 to 3, in which both the main drum body and the hollow body are provided with integrally cast sheet carriers.
5. A transfer drum according to Claim 3, characterised

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in that the multi-part hollow body is formed of a peripheral wall divided into two and screwed between two adjusting discs mounted on the main drum body.

6. A transfer drum according to Claim 5, characterised in that in each case a part of the peripheral wall divided into two is in the form of a casting which is continuous over the entire width of the drum and which on one side is widened in cross-section as a cross-member, and on which is fastened the device for gripping the rear edge of the sheet.

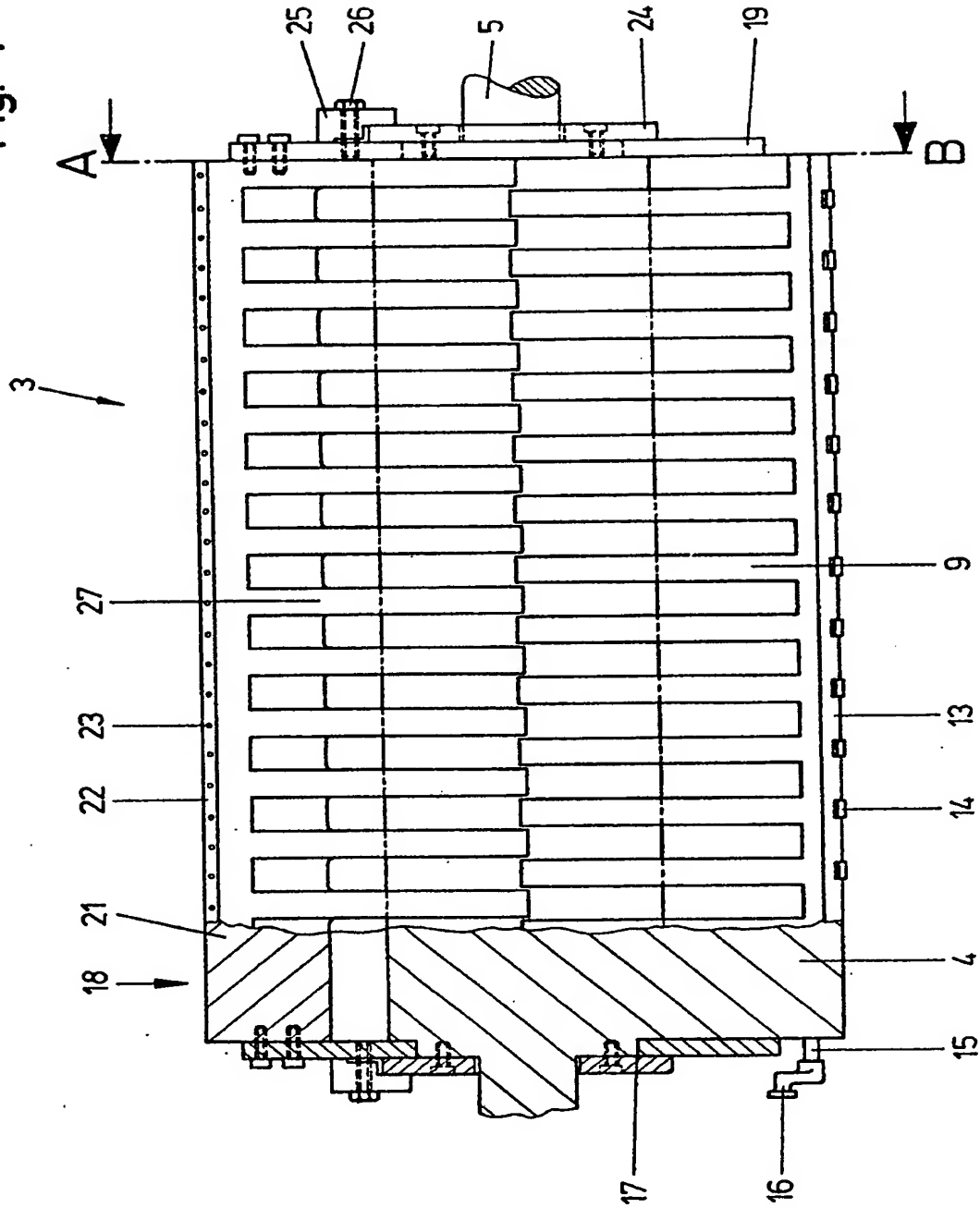
7. A transfer drum according to Claim 5 characterised in that in each case a part of the peripheral wall divided into two is composed of a suction bar of extremely large cross-section and having a continuous sheet support rail on which sheet carriers are screwed side by side at intervals.

8. A transfer drum according to Claims 1, 2, or 3, characterised in that the hollow body is adapted to be fastened on the main drum body by means of a securing device.

9. A transfer drum according to Claim 5, characterised in that the adjusting discs together with the rotatable sheet carrier unit of the hollow body are adapted to be anchored by means of clamp screws and clamp plates on a clamp ring fastened in the main drum body.



Fig. 1



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5-2

Fig. 2

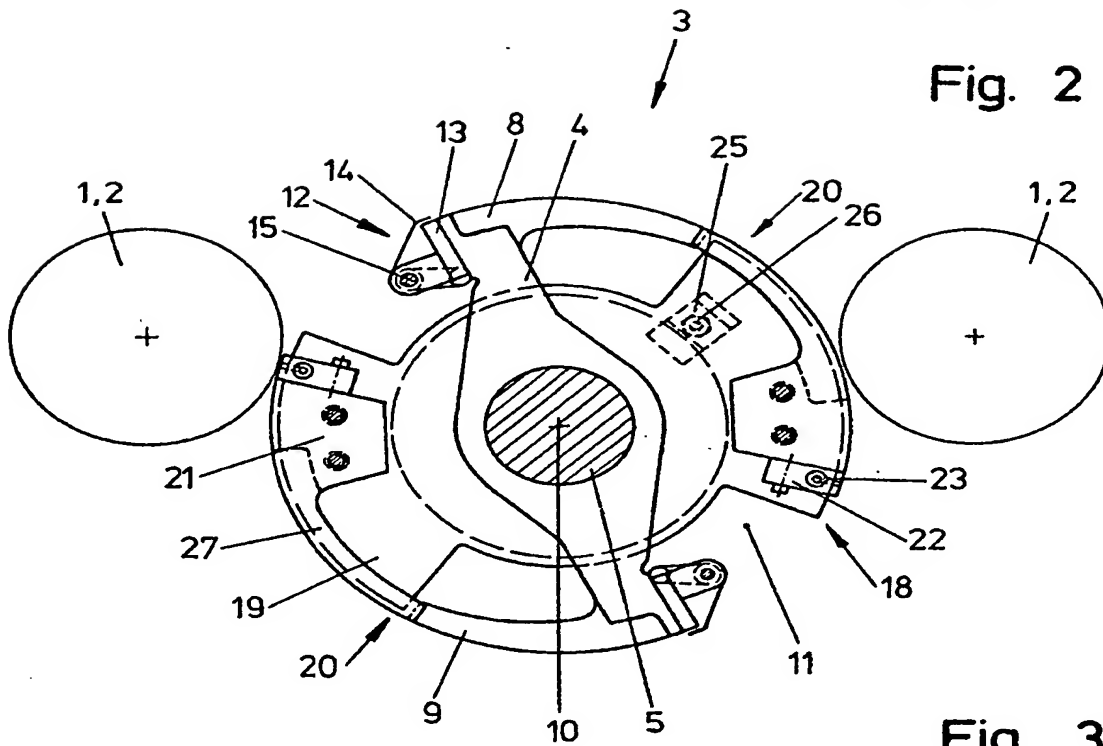
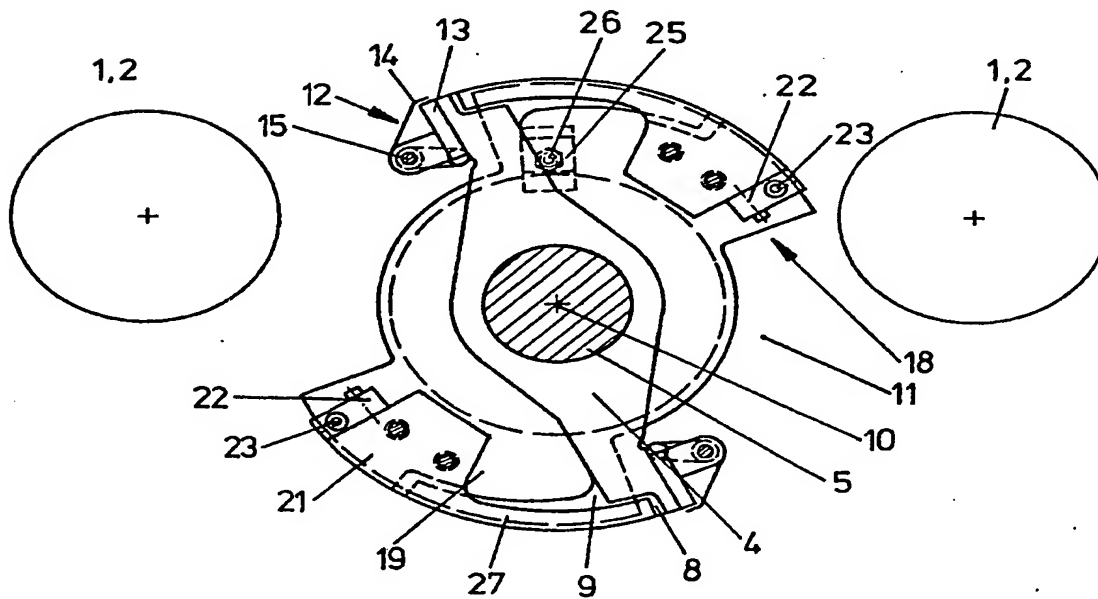


Fig. 3



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Fig. 4

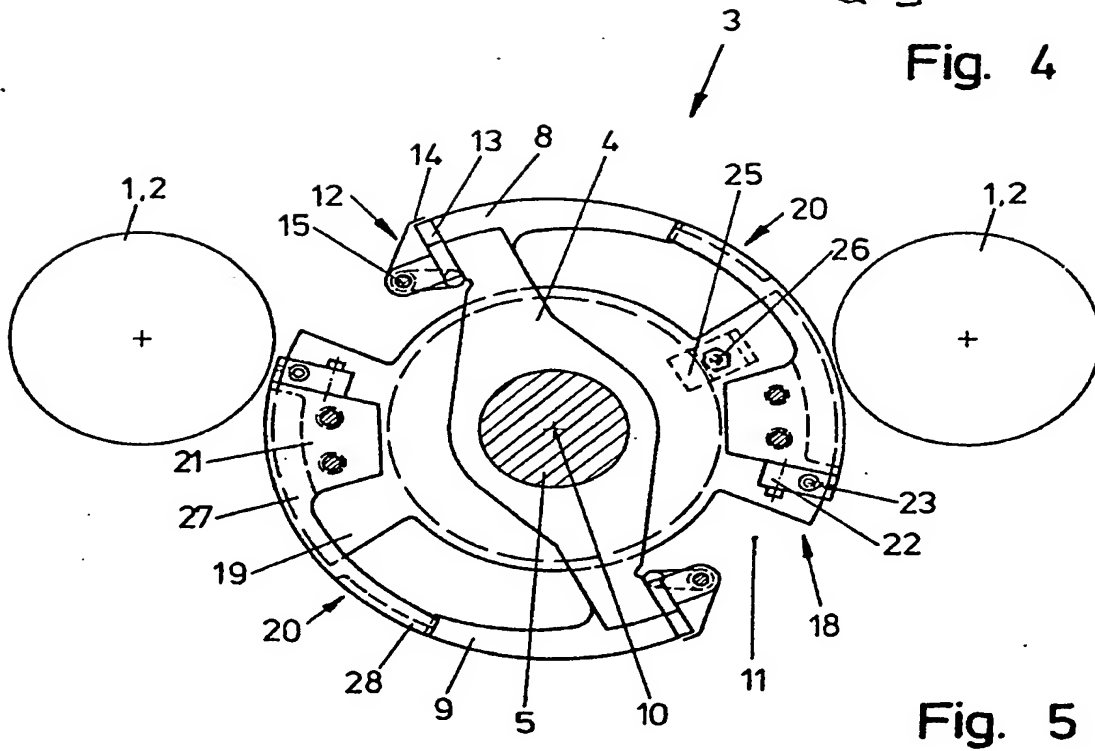
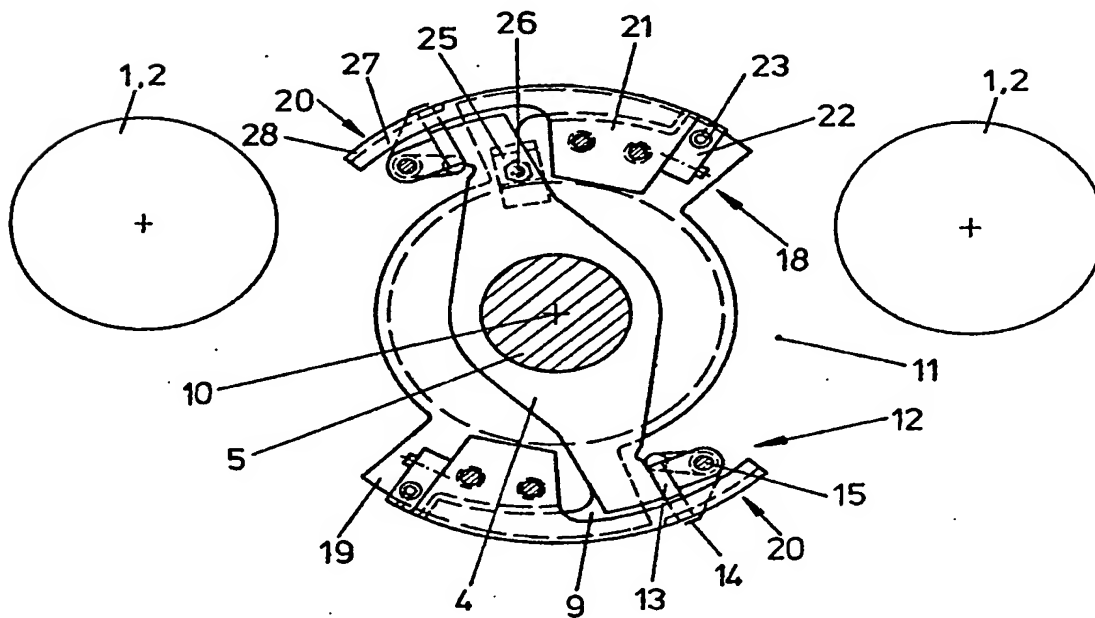


Fig. 5



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Fig. 6

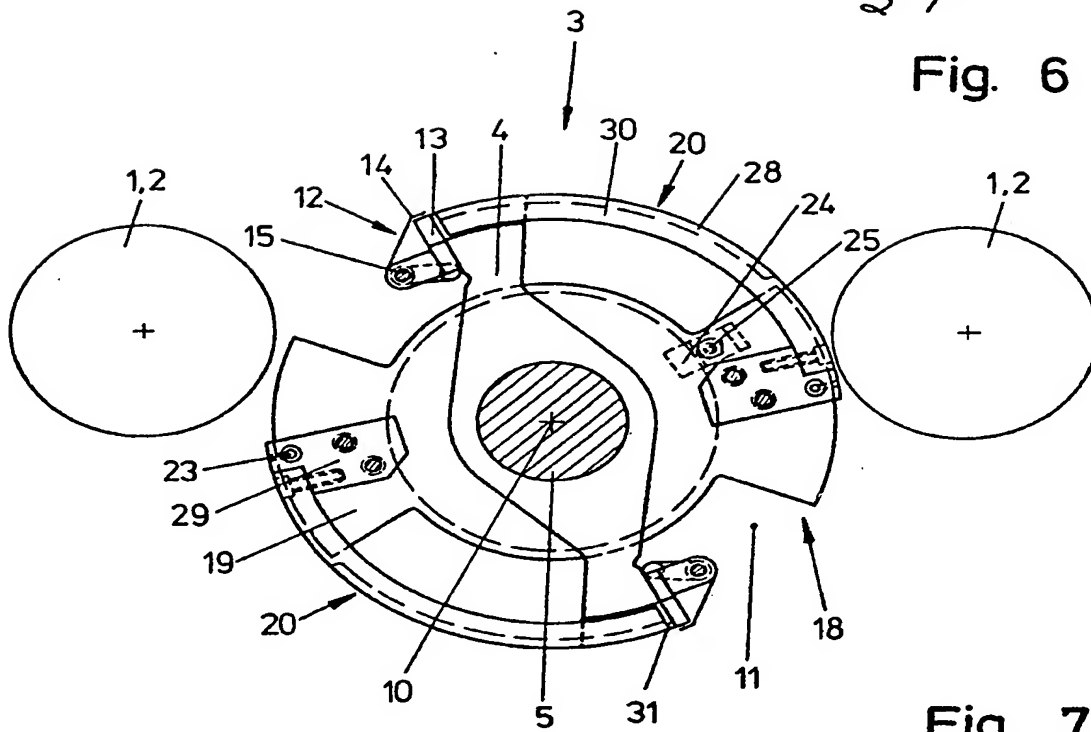
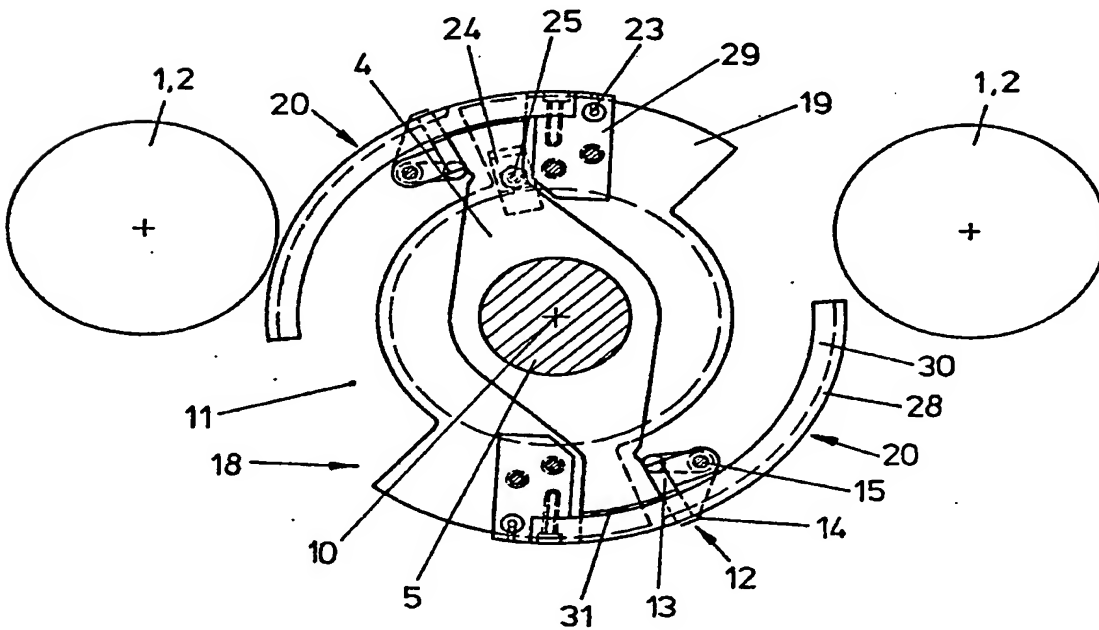


Fig. 7



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Fig. 8

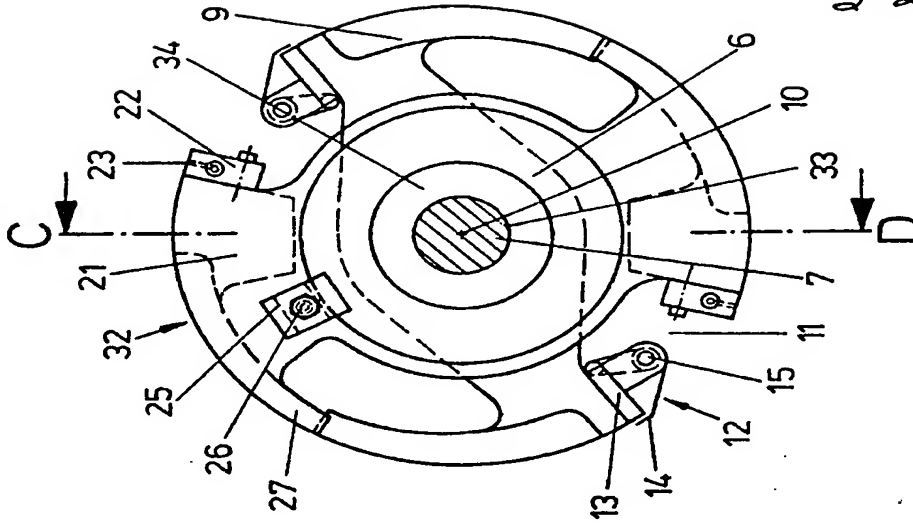
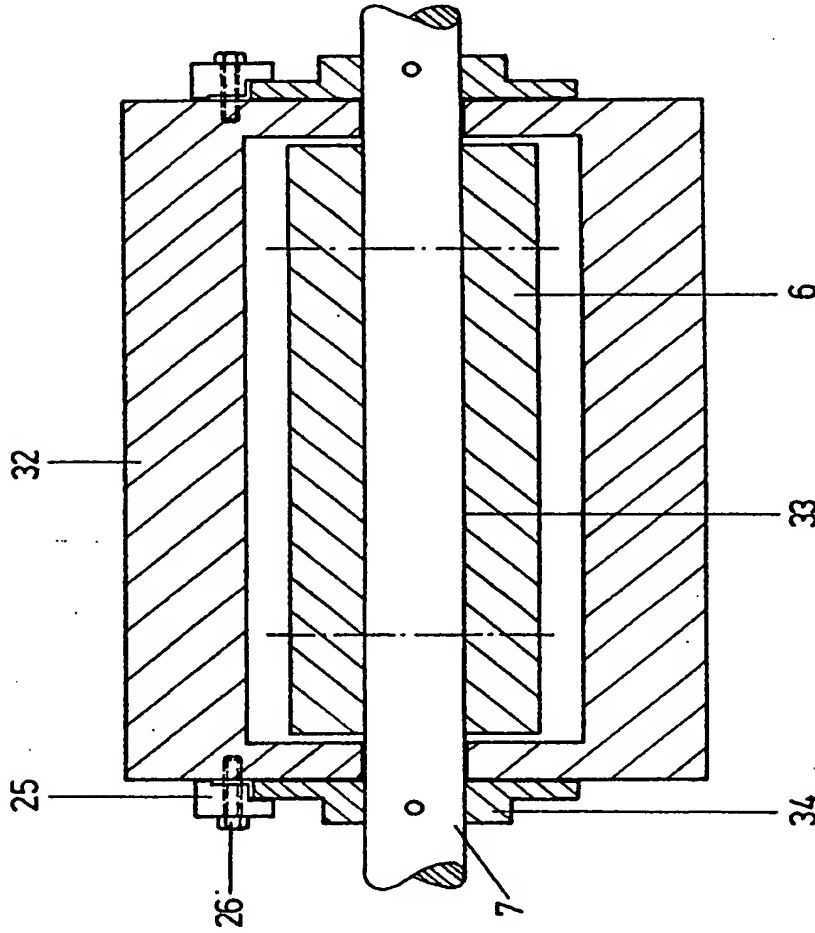


Fig. 9



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